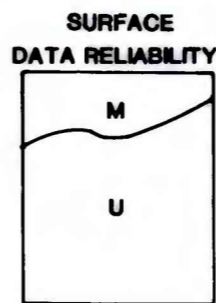


Refer to Appendix I for point by point subsurface data sources.

Hendricks, T. A., 1939  
Donica, D. R., 1978



Refer to Appendix I for point by point subsurface data reliability.

M - MEDIUM, detailed mapping prior to topographic base map.  
U - UNMAPPED

## EXPLANATION

## WELL SYMBOLS

○ Location or drilling well (Note: The only well location shown on this map is a radioactively log starting below the Hartshorne Fm.)

GL 915.0  
R 845.0  
C 1.0(L)  
R 115.0  
C 1.2(L)  
R 289.8  
C 7.0(LH)  
R 37.0  
TD 1296

COAL TEST HOLE - Showing drill-hole data in feet. Letters designate name of coal bed as listed below. Index number refers to hole on plate 3 of CRO map.

12 → 12 X, or 12  
NR 1\* 4.8(LH)  
NR 1\*

COMPOSITE MINE SECTION - Abandoned mine, showing rock interval and thickness of coal, in feet. Letters and numbers designate name of coal bed as listed below. Index number refers to section on Plate 3 of CRO map.

25 R 1\*  
C 2.3(LH)  
R 65.0 (LM)  
R 1\*

LINE OF MEASURED SECTION - Showing coal and rock thickness, in feet. Letters and numbers designate name of coal bed as listed below. Index number refers to section on Plate 3 of CRO map.

○ - Dashed index symbols indicate location of record elsewhere  
GL - Ground level elevation  
R - Rock interval  
C - Coal interval (measured)  
CE - Gross Coal Interval (estimated from well log)  
M - Mixed Coal & Rock  
B - Bone Coal  
NR - No record of lithology  
NRE - No record of lithology, thickness estimated  
TD - Total depth

NOTE: Thickness reported to tenths of feet only when resolution of data permitted.  
DRILL HOLE, MEASURED SECTION, AND COMPOSITE MEASURED SECTION DATA SYMBOLS

L Local (unnamed) coal bed  
SE Secor Coal  
UM Upper McAlester (Stigler rider) Coal  
ST Stigler (Lower McAlester) Coal  
UH Upper Hartshorne Coal  
LH Lower Hartshorne Coal  
H Hartshorne Coal  
COAL BED SYMBOLS AND NAMES

25 LH

TRACE OF COAL BED OUTCROP - Showing thickness of coal in feet measured at triangle. Letters designate name of coal bed as listed above. Arrow points toward the coal bearing area. Index number refers to section on Plate 3 of CRO map. Dashed line indicates inferred outcrop. Contacts have been adjusted to reflect topography.

ANTICLINE  
SYNCLINE

Strike and dip: ⊥ 28°; Vertical ⊥ 80°; Horizontal ⊥ 78°  
Overturned ⊥ 78°

FAULT - Dashed where approximately located. Thrust faults have sawtooth on upthrown or overthrust side. Normal faults have bar and ball on downthrown side. Strike-slip faults have arrows showing relative horizontal movement.

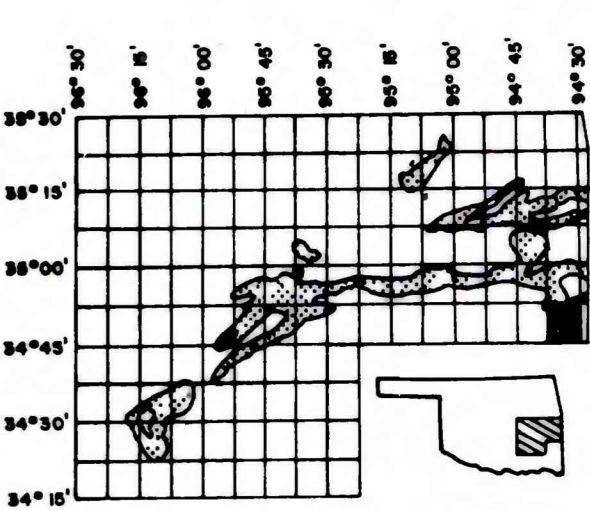
Coal mine active  
Coal mine, inactive or abandoned  
Slope entry, inactive or abandoned  
Prospect pit  
Subsurface coal mine showing name of mine and beds removed. Letters designate names of coal beds as listed above. Boundary is approximately located.

BUCK #1 (LM)  
Surface coal mine showing name of beds removed. Letters designate names of coal beds as listed above. Boundary is approximately located.

## COAL MINE SYMBOLS

To convert feet to meters, multiply feet by 0.3048.

NOTE: The explanation has been compiled to depict all possible combinations of data and does not intentionally represent any particular data points.



MAP SHOWING LOCATION OF THE 7.5 MINUTE QUADRANGLE (DENSELY STIPPLED) AND THE FEDERAL COAL LANDS (LIGHTLY STIPPLED) IN SOUTHEASTERN OKLAHOMA

This report has not been edited for conformity with Geological Survey editorial standards or stratigraphic nomenclature.

COMPILED IN 1980  
This map intended for land-use planning purposes only

PLATE 1  
COAL DATA MAP



This report was prepared under contract to the U.S. Geological Survey, and has not been edited for conformity with Geological Survey editorial standards or stratigraphic nomenclature. Opinions expressed herein do not necessarily represent those of the Geological Survey.

SCALE 1:24,000  
1 0 1000 2000 3000 4000 5000 6000 7000 FEET  
1 0 5 10 KILOMETER

CONTOUR INTERVAL 20 FEET  
DOTTED LINES REPRESENT 10-FOOT CONTOURS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

# FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE SOUTHEAST QUARTER OF THE HEAVENER 15-MINUTE QUADRANGLE, LE FLORE COUNTY, OKLAHOMA

BY GEOLOGICAL SERVICES OF TULSA, INC., B. T. BRADY, USGS, AND J. L. QUERRY, BLM

This map intended for land-use planning purposes only.